Abstract

A thermosetting transparent coating material comprising, based in each case on (A), (B), (C), and (D),

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(A) from 10 to 40 % by weight of a (meth)acrylate (co)polymer having a number-average molecular weight of from 1,000 to 6,000 daltons, a glass transition temperature of -15 to +70°C, and a hydroxyl number of from 80 to 200 mg KOH/g,

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- (B) from 10 to 40 % by weight of a polyester having a number-average molecular weight of from 800 to 6,000 daltons, a hydroxyl number of from 80 to 200 mg KOH/g and an acid number of from 1 to 50 mg KOH/g, comprising, based on the polyester, from 30 to 70 % by weight of cycloaliphatic structural units,
- (C) from 10 to 40 % by weight of a blocked polyisocyanate in which the blocked polyisocyanate groups are attached to flexibilizing structural units which, as part of a three-dimensional network, lower its glass transition temperature, and
- (D) from 10 to 40 % by weight of a blocked polyisocyanate in which the blocked polyisocyanate groups are attached to hardening structural units which, as part of a three-dimensional network, raise its glass transition temperature;

its preparation and use.